

CLAIMS

Having thus described the aforementioned invention, I claim:

- 1 1. A dynamoelectric device comprising:
 - 2 a permanent magnet rotor of ellipsoid shape having at least one N and S pole faces
 - 3 along the surface area of the shape, having stable and substantially uniform magnetic flux
 - 4 along the surface area;
 - 5 a stator having means whereby the rotor is supported for movement about an axis; and
 - 6 at least one coil of electrically conductive material axially centered with the rotor.
- 1 2. The device of claim 1 wherein said means for support of the rotor for movement about
- 2 an axis is a contoured housing of sufficient width and length to contain the rotor.
- 1 3. The device of claim 2 whereby said housing fully encases said rotor and provides an air
- 2 gap dimension between the rotor and stator.
- 1 4. The device of claim 3 wherein said air gap contains a viscous substance.
- 1 5. The device of claim 4 whereas said viscous substance is ferrofluid.

- 1 6. The device of claim 4 wherein said viscous substance is pneumatic pressure.
- 1 7. The device of claim 4 wherein said viscous substance is hydraulic pressure.
- 1 8. The device of claim 1 whereby rotor support means includes magnetic pressure.
- 1 9. The device of claim 1 whereby rotor support means includes a shaft that does not
2 extend beyond the stator coil, having means for support and pivotal movement of the rotor.
- 1 10. The device of claim 1 whereby rotor support means includes a shaft that extends
2 beyond the stator coil, having means for support and pivotal movement of the rotor.
- 1 11. The device of claims 1 - 10 whereby the at least one coil of conductor material lies
2 outside the rotor.
- 1 12. The device of claims 1 - 10 whereby the at least one coil of conductor material lies
2 inside the rotor which is hollow.
- 1 13. The device of claim 1 whereby rotor support for movement about an axis includes
2 pivot means that lies outside the stator coil, whereby a connecting member is attached to the
3 permanent magnet rotor and extends laterally through an open area unobstructed by the
4 coil structure, and whereby a yoke is further connected and extended for pivot means at
5 yoke ends.

- 1 14. The device of claim 1 whereby the electrically conductive coil is a preformed,
2 self-supporting type coil structure.
- 1 15. The device of claim 1 including means for accelerating the rotor of said device.
- 1 16. The device of claim 1 including means for accelerating the stator of said device.
- 1 17. The device of claim 1 including means for counter-rotating the rotor and stator.
- 1 18. The device of claims 15 - 17 whereby means for acceleration includes magnetic
2 coupling.
- 1 19. The device of claim 18 whereby an additional magnetic field is provided.
- 1 20. The device of claim 19 whereby the additional magnetic field is a moving magnet.
- 1 21. The device of claim 19 whereby the additional magnetic field is provided by
2 another dynamoelectric device.
- 1 22. The device of claim 19 whereby the additional magnetic field is provided by an
2 electromagnet.
- 1 23. The device of claims 15 - 17 whereby acceleration means includes magnetic coupling
10 with a moving ferrous material.

- 1 24. The device of claims 15 - 17 whereby magnetic coupling includes a stationary ferrous
2 material.
- 1 25. The device of claim 1 whereby additional ferrous material is provided for directing
2 the path of magnetic flux.
- 1 26. The device of claim 1 whereby the device is a generator.
- 1 27. The device of claim 1 whereby the device is a motor.
- 1 28. The device of claim 1 whereby the device is an oscillator.
- 1 29. The device of claim 1 whereby the device is a transformer.
- 1 30. The device of claim 1 whereas the device is multi-use.